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<u>L33</u>	L32 and local adj switch	1	<u>L33</u>
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<u>L25</u>	L23 and ATM and public	0	<u>L25</u>

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<u>L18</u>	dynamically near VC and ATM	45	<u>L18</u>
<u>L17</u>	L15 and ATM near service adj control	0	<u>L17</u>
<u>L16</u>	L15 and ATM near SCP	0	<u>L16</u>
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<u>L12</u>	L10 and service adj control	0	<u>L12</u>
<u>L11</u>	L10 and SCP	0	<u>L11</u>
<u>L10</u>	L8 and ATM	1	<u>L10</u>
<u>L9</u>	L8 and ATM and service adj control adj point	0	<u>L9</u>
<u>L8</u>	L7 and off near hook	1	<u>L8</u>
<u>L7</u>	5883893.pn.	1	<u>L7</u>
<u>L6</u>	l3 and busy	0	<u>L6</u>
<u>L5</u>	L3 and off near hook	0	<u>L5</u>
<u>L4</u>	L3 and public near switch	0	<u>L4</u>
<u>L3</u>	L1 and virtual	1	<u>L3</u>
<u>L2</u>	L1 and PSTN	0	<u>L2</u>
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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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» Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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1 [Trunking of TDM and narrowband services over IP Networks](#)

James Aweya

 January 2003 **International Journal of Network Management**, Volume 13 Issue 1

Publisher: John Wiley & Sons, Inc.

 Full text available: [pdf\(418.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possibility of using a common transport network for voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolution of networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the IP networks with the existing networks and services, particularly with the circuit switched telephone network. A &l ...

2 [Modeling and simulation of mixed traffic on a prioritized shared medium](#)

Jeffrey J. Evans, Cynthia S. Hood

 January 2003 **International Journal of Network Management**, Volume 13 Issue 1

Publisher: John Wiley & Sons, Inc.

 Full text available: [pdf\(330.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Network access systems (NAS) such as digital loop carriers (DLC) are increasingly utilizing a shared medium, such as Hybrid Fiber Coax (HFC) to provide point-to-multi-point access from the public switched telephone network (PSTN) to the end user (consumer). New services, such as direct access to the packet switched network (PSN, WWW) have been added to DLC equipment in such a way as to provide for a prioritized set of services over a shared medium in an effort to take advantage of otherwise unus ...

3 [Integrated system interoperability testing with applications to VoIP](#)

Ruibing Hao, David Lee, Rakesh K. Sinha, Nancy Griffeth

 October 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 5

Publisher: IEEE Press

 Full text available: [pdf\(756.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This work has been motivated by the need to test interoperability of systems carrying voice calls over the IP network. The voice over IP (VoIP) systems must be integrated and interoperate with the existing public switched telephone network (PSTN) before they are widely adopted. Standards have been developed to address this problem, but unfortunately different standards bodies and commercial consortiums have defined

different standards. Furthermore, the prevailing VoIP standard such as H.323 i ...

Keywords: VoIP, coverage, integrated system, interoperability testing, redundancy

4 Phoan: An intelligent system for distributed control synthesis ☐



John DeTreville

April 1984 **ACM SIGPLAN Notices , ACM SIGSOFT Software Engineering Notes ,
Proceedings of the first ACM SIGSOFT/SIGPLAN software engineering
symposium on Practical software development environments SDE 1**, Volume
19 , 9 Issue 5 , 3

Publisher: ACM Press

Full text available:  pdf(661.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Phoan is an experimental system for the specification and synthesis of control software over suitably restricted domains; its initial application domain is control software for distributed telephone systems. Phoan provides the developer with an example-based specification language, which it translates into an internal representation language based on rules and constraints. Phoan reasons at the representation level to ensure that the system definition is coherent and consistent with independent ...

5 A distributed alternative to finite-state-machine specifications ☐



Pamela Zave

January 1985 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 7 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.67 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


A specification technique, formally equivalent to finite-state machines, is offered as an alternative because it is inherently distributed and more comprehensible. When applied to modules whose complexity is dominated by control, the technique guides the analyst to an effective decomposition of complexity, encourages well-structured error handling, and offers an opportunity for parallel computation. When applied to distributed protocols, the technique provides a unique perspective and facilitates ...

6 Test plan generation using formal grammars ☐

Jonathan A. Bauer, Alan B. Finger

September 1979 **Proceedings of the 4th international conference on Software
engineering**

Publisher: IEEE Press

Full text available:  pdf(593.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A test plan generation algorithm is proposed for systems such as process-control systems or transaction-processing systems. Input to the algorithm is a description of the functional requirements for a given system. This is converted to an augmented finite state automaton (fsa) from which a regular grammar is derived. The grammar is used to generate test "sentences" each of which describes a sequence of stimuli to be applied to the system under test and responses required of the ...

7 Testing real-time constraints in a process algebraic setting ☐



Duncan Clarke, Insup Lee

April 1995 **Proceedings of the 17th international conference on Software engineering**

Publisher: ACM Press

Full text available:  pdf(1.12 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

8 The automatic generation and execution of function test plans for electronic switching systems ☐



Jonathan Bauer, Susan Faasse, Alan Finger, William Goodhue
January 1978 **ACM SIGSOFT Software Engineering Notes , ACM SIGMETRICS Performance Evaluation Review , Proceedings of the software quality assurance workshop on Functional and performance issues**, Volume 3 , 7
Issue 5 , 3-4

Publisher: ACM Press

Full text available: pdf(742.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

A three phase functional testing methodology is described for use in the development cycle of electronic switching systems. The methodology centers on a directed graph model of the system and provides for the checking of system requirements, the generation of functional tests and the automatic execution of these tests.

9 Requirements language processing for the effective testing of real-time systems ☐



Alan M. Davis, Walter J. Rataj
January 1978 **ACM SIGSOFT Software Engineering Notes , ACM SIGMETRICS Performance Evaluation Review , Proceedings of the software quality assurance workshop on Functional and performance issues**, Volume 3 , 7
Issue 5 , 3-4

Publisher: ACM Press

Full text available: pdf(469.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

GTE Laboratories is currently developing a trio of software tools which automate the feature testing of real-time systems by generating test plans directly from requirements specifications. Use of the first of these tools, the Requirements Language Processor (RLP), guarantees that the requirements are complete, consistent, non-ambiguous, and non-redundant. It generates a model of an extended finite-state machine which is used by the second tool, the Test Plan Generator, to generate test pla ...

10 A comparison of techniques for the specification of external system behavior ☐



Alan, M. Davis
August 1988 **Communications of the ACM**, Volume 31 Issue 9

Publisher: ACM Press

Full text available: pdf(2.95 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

The elimination of ambiguity, inconsistency, and incompleteness in a Software Requirements Specification (SRS) document is inherently difficult, due to the use of natural language. The focus here is a survey of available techniques designed to reduce these negatives in the documentation of a software product's external behavior.

11 Software testing and the PABX ☐



John O.B. Greaves, Art Bailey
January 1983 **Proceedings of the 1983 annual conference on Computers : Extending the human resource**

Publisher: ACM Press

Full text available: pdf(420.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The topic of software testing is as general as the blue sky, and because software has become one of the key ingredients used to build machines, testing methodologies have become an important part of the overall software development cycle, particularly in highly demanding real time environments. A good software test insures that the machine

performs in the manner envisioned by its creators. While testing can be done at many stages ranging from design and code reviews to low level testing of ...

12 Fundamentals of stored program control of telephone switching systems ☐



F. S. Viglinate

January 1964 **Proceedings of the 1964 19th ACM national conference**

Publisher: ACM Press

Full text available: [pdf\(537.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The Bell System has initiated the commercial installation of stored program controlled telephone switching systems. The main purpose for introducing stored program control is to provide flexible systems where additions and changes can be introduced primarily through program modification rather than through changes in hardware. This brief tutorial paper discusses the general organization of these new systems. The basic elements touched upon include control, storage, scanning, signaling, swit ...

13 Modular refinement of hierarchic reactive machines ☐



Rajeev Alur, Radu Grosu

March 2004 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 26 Issue 2

Publisher: ACM Press

Full text available: [pdf\(224.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#),
[review](#)

Scalable formal analysis of reactive programs demands integration of modular reasoning techniques with existing analysis tools. Modular reasoning principles such as abstraction, compositional refinement, and assume-guarantee reasoning are well understood for architectural hierarchy that describes the communication structure between component processes, and have been shown to be useful. In this paper, we develop the theory of modular reasoning for *behavior hierarchy* that describes control ...

Keywords: Hierarchical state machines, assume-guarantee reasoning, compositional semantics, refinement

14 Simulation of a burst-switched integrated voice and bulk data communications network ☐

Carolyn M. Jack, James D. Morse

March 1986 **Proceedings of the 19th annual symposium on Simulation**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(795.24 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

15 Reuse in the telecommunication domain using object oriented technology and Ada ☐



Anders Sixtensson, Wenchuan Ye

July 1990 **Proceedings of the seventh Washington Ada symposium on Ada**

Publisher: ACM Press

Full text available: [pdf\(737.79 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: Ada, object orientation, software reuse, telecommunication

16 Lessons from using basic LOTOS ☐

Mark A. Ardis

May 1994 **Proceedings of the 16th international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(956.09 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

17 Research on rural communication and the microcomputer controlled modem and telephone ☐



Robert C. Gammill

October 1981 **Proceedings of the 1981 ACM SIGSMALL symposium on Small systems and SIGMOD workshop on Small database systems**

Publisher: ACM Press

Full text available:  [pdf\(694.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Rural areas have a high variance in quality of life attributes. Despite positive attributes such as quiet, clean air, woods, lakes, slower pace and other amenities, there are numerous negative attributes stemming from isolation, such as limited numbers of stimulating jobs, reduced access to educational, cultural and entertainment opportunities, reduced peer interaction, and other positive attributes of urban life. Modern communications media, such as telephone, mail, newspapers, magazines, ...

18 Rapid prototyping with Ada ☐



Ken Bowles

March 1986 **Proceedings of the third annual Washington Ada symposium on Ada: Ada use in focus : practical lessons in perspective**

Publisher: ACM Press

Full text available:  [pdf\(1.86 MB\)](#) Additional Information: [full citation](#), [references](#)

19 Modular refinement of hierarchic reactive machines ☐



Rajeev Alur, Radu Grosu

January 2000 **Proceedings of the 27th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Publisher: ACM Press

Full text available:  [pdf\(1.62 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Scalable formal analysis of reactive programs demands integration of modular reasoning techniques with existing analysis tools. Principles such as abstraction, compositional refinement, and assume-guarantee reasoning are well understood for architectural hierarchy that describes the communication structure between component processes, and have been shown to be useful. In this paper, we develop the theory of modular reasoning for behavior hierarchy that describes control str ...

20 An architectural approach to minimizing feature interactions in telecommunications ☐

Israel Zibman, Carl Woolf, Peter O'Reilly, Larry Strickland, David Willis, John Visser

August 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 4

Publisher: IEEE Press

Full text available:  [pdf\(1.55 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)